



# Digital Passport on Blockchain

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## Abstract

Blockchain is a decentralised, publicly accessible network which is highly secured. The network reconciles every transaction that happens for every 10 minutes of interval. Each group of transaction is called a block. The blockchain is used in various sectors like -- healthcare, cross-border payments, real estate and banking. The poster summarises the utilisation of blockchain distributed ledger technology in digital passports. Besides, it emphasis on how the digital passport saves cost and time when compared to the current passport system for both the government and public.

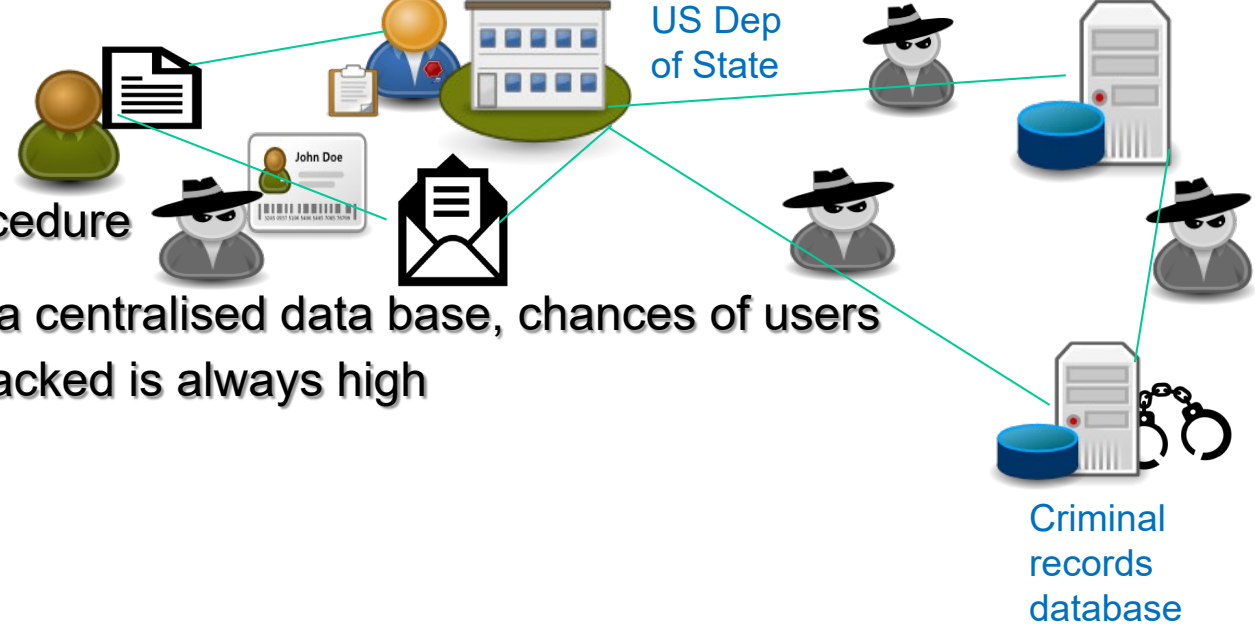
## Passport as an Identity and Travel Document

The passport is a travel document that validates the nationality and identity of its holder. It is usually issued by the Central government for the purpose of international travel. The current passport that people use is a physical document that has the holders name on it, photograph, place and date of birth, his citizenship and stamped visas. Meanwhile, various governments are exploring options to make the passport mangement a seamless process. A few flaws that the present passport system has are:

- 1) Identity theft

2) Long application time

3) Complicated recovery procedure

5) With data being stored in a centralised data base, chances of users personal information being hacked is always high
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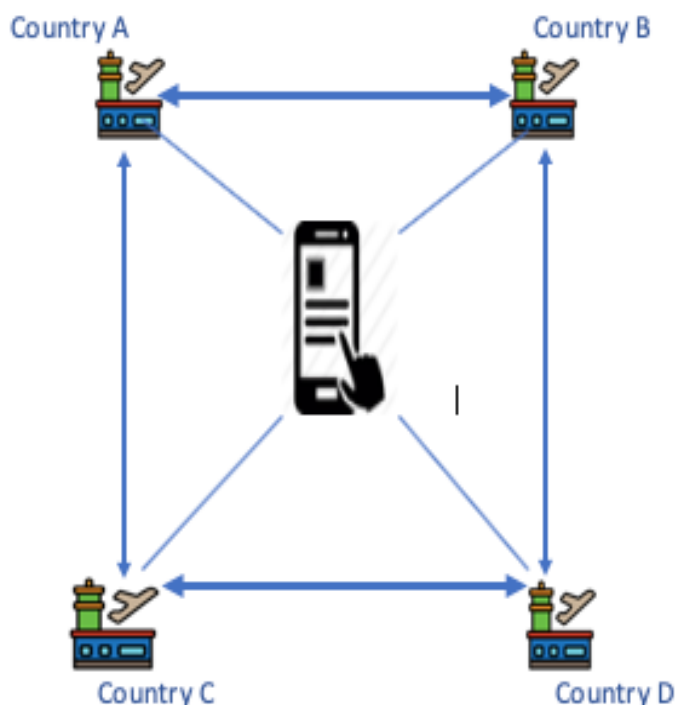
## Case study: Person X is traveling from country A to country B

In country A, the person X goes to the check-in desk of the airlines at the airport, validates his visa, ticket using digital passport and face recognition system. Now, at the immigration desk he does not have validate his details again, as it is already available with them. In country B, the process will be much faster, since all the visa validations, and identity authentication, and travel history have been distributed in the blockchain system.



## Digital Passport on Blockchain

Blockchain is transparent, independent and secure system. The new generation of passport will be based on blockchain technology. It wouldn't be wrong to call it a digital passport, which works with a help of an app that has facial recognition technology. The distributed network in blockchain will provide people with full control of their identity since data will be immutable and stored in encrypted blocks. To guarantee the validity of the digital passport, the government should issue identity documents and authorise the passport.



## The Advantages of Digital Passport

- 1) Passport and Visa fraud detection will be easy and fast.

2) People will have the control on their data.

3) Makes travel hassle-free process.

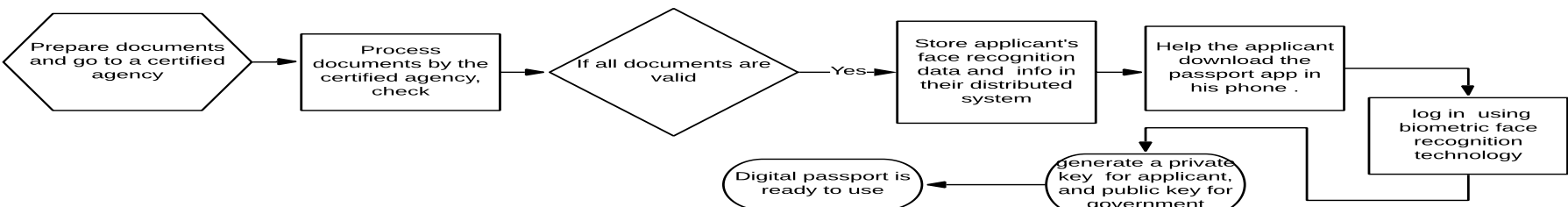
4) With data being stored in encrypted blocks, there is a very little scope of data being hacked.

5) It does not have an expiration date

6) Since it is digital and everything works through an app, one can easily keep a track of his/ her travel history. Besides, the user-friendly technology that is used to build the app makes it easy for people to navigate through it.

## Short Process to Procure Digital Passport

The process of getting a standard passport usually takes up to six to eight weeks or sometimes longer. If relied on blockchain technology it would help minimise the time, the cost.



## Conclusion

Digitalisation has taken the world by storm. While everyone of us enjoy the perks of every single thing being available at figner tips, it has its share of flaws. Privacy is one of the major issues that needs to be address in the digital era. However, with the use of digital passports a lot of frauduelent activities can be curbed and also privacy issues will be minimal. Already, many countries have signed Memorandum of Understanding(MoUs) to carry out in depth research and study with regard to blockchain technology and how it can be used to develop an app that caters to the need of digital passport.